U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE

Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under <i>35 USC 371</i>		Attorney's Docket Number REF/FLUGGE/168
		U.S. Application Number 09/719,168
International Application Number	International Filing Date	Priority Date Claimed
PCT/EP99/04095	June 14, 1999	June 13, 1998
Title of Invention  DNA SEQUENCES WHICH CODE IN THE PLANTS CONTAINING THIS TRAINING THIS TRAIN		PLASMIDS, BACERTIA, YEASTS AND
Applicant(s) for DO/EO/US		
FLUGGE et al.		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items under 35 USC 371:

- 1. Mark This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 USC 371.
- 2. □ An oath or declaration of the inventor(s) (35 USC 371(c)(4)). (□ Executed □Unexecuted)
- 3. ⊠ A copy of Form PCT/DO/EO/905 dated: April 30, 2001.
- 4. 

  A Sequence Listing paper copy and a computer readable disk.
- 5. □ An assignment document for recording.A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- 6. ☐ A **FIRST** preliminary amendment.
  - □ A SECOND or SUBSEQUENT preliminary amendment.
- 7. 

  A substitute specification.
- 8. 

  A change of power of attorney and/or address letter.
- 9. 

  A Verified Statement Claiming Small Entity Status.
- 10. 

  A Request for Refund.
- 11. □ Surcharge in the amount of \$0.00.
- 12. ☐ Assignment recordation fee of **\$0.00**.
- 13.  $\square$  Processing fee of  $\S$  for furnishing the English translation later than  $\square$  20  $\square$  30 months from the earliest claimed priority date (37 CFR 1.492(f)).

A check in the amount of \$ 0.00 to cover the fees is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account Number 02-0200. A duplicate copy of this sheet is enclosed.

Respectfully submitted, BACON & THOMAS, PLLC

By:

RICHARD E. FICHTER Registration No. 26,382

BACON & THOMAS, PLLC 625 Slaters Lane - 4th Fl. Alexandria, Virginia 22314 Phone: (703) 683-0500

Date: July 30, 2001





PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SAWATZKI et al.

Attention:

PCT BOX MISSING PARTS

Serial No.:

09/719,168

Filed: December 13, 2000

DNA SEQUENCES WHICH CODE A GLUCOSE-TRANSLOCATOR,

PLASMIDS, BACTERIA, YEASTS AND PLANTS CONTAINING

THIS TRANSLOCATOR

### PETITION FOR EXTENSION OF TIME

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Applicants request that the period for response to the outstanding official action in this case be extend pursuant to 37 CFR 1.136 (a) for ONE (1) month to July 30, 2001.

The fee set in 37 CFR 1.17(a) for a one month extension of time is \$55.00 and a check in this amount is submitted herewith. Small entity status has been established. Please charge any additional fee required for this extension to Deposit Account No. 02-0200. A duplicate copy of this paper is attached.

> Respectfully submitted, **BACON & THOMAS, PLLC**

Richard E. Fichter

Registration No. 26,382

625 Slaters Lane, 4th Fl. Alexandria, Virginia 22314 Phone: (703) 683-0500 Facsimile: (703) 683-1080

REF:kdd EXT-SML.EX1.wpd

July 30, 2001

**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

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THIS TRANSLOCATOR

## RESPONSE AND SUBMISSION OF MISSING PARTS OF APPLICATION

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

This is in response to the Official Action dated April 30, 2001, in connection with the above-identified application which is a Notification of Missing Part Requirements with a period for response set to expire on June 30, 2001. The period for response has been extended to expire on July 30, 2001, by the filing herewith of a Petition for a One Month Extension of Time and payment of the appropriate fee for a small entity.

The Official Action states that Applicants must submit the required Sequence Listing as referred to on the attached form PCT/DO/EO/905 which states that Applicants must provide an initial or substitute computer readable form of the Sequence Listing and a statement that the content of the paper or compact disk and the computer readable form are the same and where applicable include no new matter.

Applicants most respectfully submit that the Sequence Listing contained on the computer disk submitted herewith corresponds to that contained in the specification of the present application as originally filed. No new matter has been introduced. A paper copy of the Sequence Listing contained on the computer readable disk submitted herewith is also submitted herewith.

Serial No.: 09/719,168

In view of the above submission of an initial computer readable disk, application is now complete and it should be further processed and forwarded to the examining group for an examination on the merits.

Respectfully submitted,

**BACON & THOMAS, PLLC** 

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REF/kdd

MissPts PCT Ltr toPTO.wpd

July 30, 2001

# Rec'd PCT/PTO 3.0 JUL 2001 09/719168

DNA-sequences coding for a glucose-translocator, plasmids, bacteria, yeast and plants containing this transporter PCT/EP99/04095

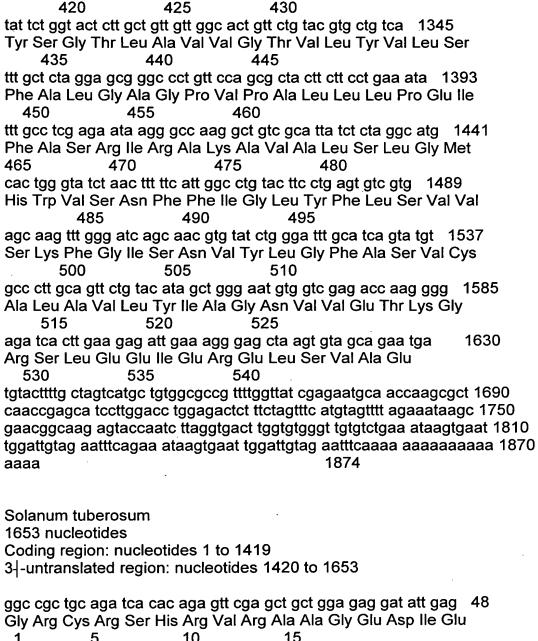
Prof. Dr. Flagge, Ulf-Ingo SEQUENCE LISTING OF PLASTIDIC GLUCOSE TRANSPORTERS

Zea mays

165

1874 nucleotides Coding region: nucleotides 2 to 1630 3-untranslated region: nucleotides 1631 to 1874 g gca cga gag atg atg cgc tgc gct gca acg ggc ggc ggg tgc gtc gct 49 Ala Arg Glu Met Met Arg Cys Ala Ala Thr Gly Gly Gly Cys Val Ala 10 15 tog tgg age ggt egg aga ttg eeg geg gte aac eec tge age gtg 97 Ser Trp Ser Gly Asp Arg Arg Leu Pro Ala Val Asn Pro Cys Ser Val egg atg eeg aeg gge aac gat ggg tgg tge gee gge etg agg teg egg 145 Arg Met Pro Thr Gly Asn Asp Gly Trp Cys Ala Gly Leu Arg Ser Arg geg geg gat etc gee gge etc gag atg gee aac etg ege gge gge gte 193 Ala Ala Asp Leu Ala Gly Leu Glu Met Ala Asn Leu Arg Gly Gly Val ggg ggg ctc ttc cgc gcg agc ccg cgc tac ggg cgc ttg caa gcc acg 241 Gly Gly Leu Phe Arg Ala Ser Pro Arg Tyr Gly Arg Leu Gln Ala Thr 65 gcg gca gtt gac cct gaa gat att cca ttg gag aag gtt caa gtt aaa 289 Ala Ala Val Asp Pro Glu Asp Ile Pro Leu Glu Lys Val Gln Val Lys 85 90 tcc tca gga cat gtt ctg cca tat gtt ggc gtt gct tgt ttg ggg gct 337 Ser Ser Gly His Val Leu Pro Tyr Val Gly Val Ala Cys Leu Gly Ala 100 105 110 att ctg ttt ggt tac cat ctt ggt gtg gtc aat ggc gca ctt gaa tat 385 lle Leu Phe Gly Tyr His Leu Gly Val Val Asn Gly Ala Leu Glu Tyr 115 120 125 ctc gcg aag gat ctt ggg att gct gaa aat gct gtc ttg cag ggg tgg 433 Leu Ala Lys Asp Leu Gly Ile Ala Glu Asn Ala Val Leu Gln Gly Trp 135 140 gtg gtt agc aca tcc ttg gct ggt gca aca cta ggt tct ttt act ggg 481 Val Val Ser Thr Ser Leu Ala Gly Ala Thr Leu Gly Ser Phe Thr Gly 155 150 ggt tet ttg gea gat aaa ttt ggg egg aca aga aca tte ate etg gat 529 Gly Ser Leu Ala Asp Lys Phe Gly Arg Thr Arg Thr Phe Ile Leu Asp 170 175

gca gtc cca ctt gct cta ggt gca ttc ttg agt gca aca gct caa gat 577 Ala Val Pro Leu Ala Leu Gly Ala Phe Leu Ser Ala Thr Ala Gln Asp 180 185 190
atc cgc aca atg att att ggc cga ttg ctt gct gga att ggt atc ggg 625 lle Arg Thr Met lle Ile Gly Arg Leu Leu Ala Gly Ile Gly Ile Gly 195 200 205
ytc tca tct gct ctt gta ccc ctt tac ata tct gag atc tca cca act 673 Val Ser Ser Ala Leu Val Pro Leu Tyr lle Ser Glu lle Ser Pro Thr 210 215 220
gaa att cgt gga aca ctt ggt acc gtt aat caa ctt ttt att tgc att 721 Glu lle Arg Gly Thr Leu Gly Thr Val Asn Gln Leu Phe lle Cys lle 225 230 235 240
gga att ctt gca gct ttg tta gct gga ttg cct ctg gca gga aat cct 769 Gly lle Leu Ala Ala Leu Leu Ala Gly Leu Pro Leu Ala Gly Asn Pro 245 250 255
gcc tgg tgg agg aca atg ttt gga att gct gta gtt cca tcc att ctg 817 Ala Trp Trp Arg Thr Met Phe Gly Ile Ala Val Val Pro Ser Ile Leu 260 265 270
ctg gct gta gga atg gcc ttt tcg cct gaa agc cct cgt tgg cta ttc 865 Leu Ala Val Gly Met Ala Phe Ser Pro Glu Ser Pro Arg Trp Leu Phe 275 280 285
cag caa gga aag gtt act caa gca gaa tta gct gta aaa aga ctg tat 913 Gln Gln Gly Lys Val Thr Gln Ala Glu Leu Ala Val Lys Arg Leu Tyr 290 295 300
gga aaa gaa atg gtt acc gaa att atg ttt gat ctg aga gct agt ggc 961 Gly Lys Glu Met Val Thr Glu Ile Met Phe Asp Leu Arg Ala Ser Gly 305 310 315 320
caa agt tct tcg gag tcc gaa gcc ggc tgg ttt gat ctt ttc agc aag 1009 Gln Ser Ser Glu Ser Glu Ala Gly Trp Phe Asp Leu Phe Ser Lys 325 330 335
cgt tac tgg aaa gtt gtg agt gtg ggg gca gca ctg ttt ttg ttc cag 1057 Arg Tyr Trp Lys Val Val Ser Val Gly Ala Ala Leu Phe Leu Phe Gln 340 345 350
cag ctt gct ggt ata aac gct gtt gta tat tac tct aca tcg gtg ttc 1105 Gin Leu Ala Gly Ile Asn Ala Val Val Tyr Tyr Ser Thr Ser Val Phe 355 360 365
cgt agt gca ggc att gca tct gat gtt gct agt gct ctt gtt gga 1153 Arg Ser Ala Gly lle Ala Ser Asp Val Ala Ala Ser Ala Leu Val Gly 370 375 380
gca gcc aat gtt ttt ggt act atg gtt gca tct tct cta atg gac aaa 1201 Ala Ala Asn Val Phe Gly Thr Met Val Ala Ser Ser Leu Met Asp Lys 385 390 395 400
caa gga agg aaa agc ctt ctg ata aca agc ttt tct gga atg ggt gct 1249 Gln Gly Arg Lys Ser Leu Leu lle Thr Ser Phe Ser Gly Met Gly Ala 405 410 415
tca atg cta ctc cta gca ttg tcc ttc acc tgg aaa gct ctg gca cct 1297



Ser Met Leu Leu Leu Ala Leu Ser Phe Thr Trp Lys Ala Leu Ala Pro

1 5 10 15
gat gca gca cct ctc aaa gtt caa ggc caa tca tct gga tca gta ctt 96
Asp Ala Ala Pro Leu Lys Val Gln Gly Gln Ser Ser Gly Ser Val Leu
20 25 30
ccc tat gtg ggt gta gct tgt ctg gga gca att tta ttt gga tat cac 144
Pro Tyr Val Gly Val Ala Cys Leu Gly Ala Ile Leu Phe Gly Tyr His
35 40 45
cta ggg gtg gtg aat ggt gcc ctt gag tac cta gct aag gat ctt gga 192
Leu Gly Val Val Asn Gly Ala Leu Glu Tyr Leu Ala Lys Asp Leu Gly

50 55 60
att gcc gag aac act gtt ata caa gga tgg att gtt agc aca gtt ctt 240 lle Ala Glu Asn Thr Val Ile Gln Gly Trp Ile Val Ser Thr Val Leu 65 70 75 80
gct ggc gcc ttt gtt ggt tca ttt act ggt gga gtt ctg gct gat aaa 288 Ala Gly Ala Phe Val Gly Ser Phe Thr Gly Gly Val Leu Ala Asp Lys 85 90 95
ttt ggc cga aca aag aca ttt ata ttg gat gca att cca ctt tca gtt 336 Phe Gly Arg Thr Lys Thr Phe Ile Leu Asp Ala Ile Pro Leu Ser Val 100 105 110
ggt gcg ttt cta tgt acc act gcc cag agt gtt cag gct atg atc att 384 Gly Ala Phe Leu Cys Thr Thr Ala Gln Ser Val Gln Ala Met Ile Ile 115 120 125
gga cgc tta ctt act gga att ggc att ggc atc tca tct gct att gtg 432 Gly Arg Leu Leu Thr Gly lle Gly lle Gly lle Ser Ser Ala lle Val 130 135 140
cca ctt tac ata tct gag atc tca ccc act gaa att cgc ggc aca ctg 480 Pro Leu Tyr lle Ser Glu lle Ser Pro Thr Glu lle Arg Gly Thr Leu 145 150 155 160
gga acg gtc aat cag cta ttc att tgc att gga att ctt gtt gca ctc 528 Gly Thr Val Asn Gln Leu Phe Ile Cys Ile Gly Ile Leu Val Ala Leu 165 170 175
gtg gtt gga ttg cct ttg tct gga aat cct tcg tgg tgg aga aca atg 576 Val Val Gly Leu Pro Leu Ser Gly Asn Pro Ser Trp Trp Arg Thr Met 180 185 190
ttt ggt ctc gca ctt att cca tct gtt tta ctt gca ata gga atg gca 624 Phe Gly Leu Ala Leu Ile Pro Ser Val Leu Leu Ala Ile Gly Met Ala 195 200 205
ttt tct cct gaa agt cct cgg tgg ctc tat cag caa ggg aga att tct 672 Phe Ser Pro Glu Ser Pro Arg Trp Leu Tyr Gln Gln Gly Arg lle Ser 210 215 220
gaa gct gag aca tct att aaa agg cta tat ggt aaa gaa aaa gtt gct 720 Glu Ala Glu Thr Ser Ile Lys Arg Leu Tyr Gly Lys Glu Lys Val Ala 225 230 235 240
gag gtt atg ggt gac ttg gaa gct tct gcc cgg ggt tct tca gaa cca 768 Glu Val Met Gly Asp Leu Glu Ala Ser Ala Arg Gly Ser Ser Glu Pro 245 250 255
gat gct ggg tgg ctt gat cta ttt agt agc cgt tat agg aaa gtt gtt 816 Asp Ala Gly Trp Leu Asp Leu Phe Ser Ser Arg Tyr Arg Lys Val Val 260 265 270
agc att ggt gca gct atg ttc ttg ttg cag cag ttg gct ggg ata aat 864 Ser Ile Gly Ala Ala Met Phe Leu Leu Gln Gln Leu Ala Gly Ile Asn

285

gct gtt gtc tat tat tcc act gcc gtg ttc cgg agt gct gga att aca 912 Ala Val Val Tyr Tyr Ser Thr Ala Val Phe Arg Ser Ala Gly lle Thr 290 295 300

280

		Ser Ala Leu Va			
305	310	315	320		,
		tct ttg atg gac a Ser Leu Met As 330			
Leu Le	eu lle Ser Tyr 340	t gga atg gct go Thr Gly Met Ala 345	Ala Ser Met I 350	Met Leu Leu S	Ser
Leu Se	er Phe Thr Trp 55		hr Pro Tyr Ser 65	Gly Thr Leu	
Val Le 370	u Gly Thr Val 375		u Ser Phe Ser	Leu Gly Ala	•
Pro Va 385	al Pro Ala Leu 390	ı ctt cca gaa ata Leu Leu Pro G 395	lu lle Phe Ala 400	Ser Arg Ile Ar	g
_		ctc tct ttg ggg g Leu Ser Leu Gl 410			248 ne
		ttg agc att gta a Phe Leu Ser Ile 425			
Thr Va	I Tyr Met Gly	tt gca ctc tct tgt Phe Ala Leu Se 140 4			
	Gly Asn Val \	tg gag aca aag /al Glu Thr Lys 5 460	Gly Arg Ser L		
	it gag tta agt o g Glu Leu Ser 470	ca gca att tga g Pro Ala Ile	gtggtacaac atg	aacagct	1439
gggagt tttcttgta	ttcta ttattgcgag ac gtcggcatca	g ccatccagtg gg g actggagttg ca tgaatcatgg aac g agtatttcaa aa	tcacttac cctttac attgtaa aaaca	gcta tctctttgat	1559

Spinacia oleracea 1864 nucleotides

Coding region: nucleotides 61 to 1716
5-untranslated region: nucleotides 1 to 60
3-untranslated region: nucleotides 1717 to 1864

ggcacgaggc gatcgctgct taatcaattt caactttcgg tttagaaaaa gagggggaaa 60 atg cag gcg tca act ttt atg gtc aaa ggc aat ttg ggt ttt gaa gtt 108 Met Gln Ala Ser Thr Phe Met Val Lys Gly Asn Leu Gly Phe Glu Val
1 5 10 15
cag aac cgt aga gtg gct ggg ctt gct ggg ttg aaa ggg tta agc tca 156 Gln Asn Arg Arg Val Ala Gly Leu Ala Gly Leu Lys Gly Leu Ser Ser 20 25 30
atc cgt tcc aat aat cta agt ttt gtg aat gtt aat gac aat aat tat 204 Ile Arg Ser Asn Asn Leu Ser Phe Val Asn Val Asn Asp Asn Asn Tyr 35 40 45
aag tct aat ccc tgt aaa ttg agt tgt ggg tcc ctt tcg atg ggt gct 252 Lys Ser Asn Pro Cys Lys Leu Ser Cys Gly Ser Leu Ser Met Gly Ala 50 55 60
gga ttt gca aga ttg ggt ctt gat cat gtc atg aag tcc tca ccc aag 300 Gly Phe Ala Arg Leu Gly Leu Asp His Val Met Lys Ser Ser Pro Lys 65 70 75 80
tac aga tca gtc aag gct caa gct gct tct gga gga gat ctt gaa gat 348 Tyr Arg Ser Val Lys Ala Gln Ala Ala Ser Gly Gly Asp Leu Glu Asp 85 90 95
gcc act cct gtc aaa tat caa ggc aaa tct tct gca tca gtg ttg ccg 396 Ala Thr Pro Val Lys Tyr Gln Gly Lys Ser Ser Ala Ser Val Leu Pro 100 105 110
tat gtt ggt gtt gct tgt ttg gga gct att ttg ttt gga tat cac ctt 444  Tyr Val Gly Val Ala Cys Leu Gly Ala Ile Leu Phe Gly Tyr His Leu  115 120 125
ggt gtg gta aat gga gct ctt gac tac cta tct gcg gat tta gct att 492 Gly Val Val Asn Gly Ala Leu Asp Tyr Leu Ser Ala Asp Leu Ala Ile 130 135 140
gct ggc aat act gtt tta caa gga tgg gtt gtg agc ata tta ctt gct 540 Ala Gly Asn Thr Val Leu Gln Gly Trp Val Val Ser lle Leu Leu Ala 145 150 155 160
gga gcg act gta ggt tca ttt act ggc gga tct ttg gct gat aag ttt 588 Gly Ala Thr Val Gly Ser Phe Thr Gly Gly Ser Leu Ala Asp Lys Phe 165 170 175
gga agg aca aag acc ttc cag tta gat gca att cct ctt gca ata gga 636 Gly Arg Thr Lys Thr Phe Gln Leu Asp Ala Ile Pro Leu Ala Ile Gly 180 185 190
gct tat ctc tgt gcc aca gca caa aat gta cag ata atg atg att ggt 684 Ala Tyr Leu Cys Ala Thr Ala Gln Asn Val Gln Ile Met Met Ile Gly 195 200 205
cgt tta ctt tgt ggc att gga att ggc ata tca tct gcc tta gtt ccg 732 Arg Leu Leu Cys Gly lle Gly lle Ser Ser Ala Leu Val Pro 210 215 220
tta tac att tct gag att tcg cca act gaa att cga ggt gca ctt ggt 780 Leu Tyr lle Ser Glu lle Ser Pro Thr Glu lle Arg Gly Ala Leu Gly 225 230 235 240

tct gtc aac cag ctt ttt ata tgc att ggt att ctt gcg gct ttg gtt 828 Ser Val Asn Gln Leu Phe lle Cys lle Gly lle Leu Ala Ala Leu Val
245 250 255
gct gga ttg cct tta gca gga aac cct ttg tgg tgg agg aca atg ttt 876 Ala Gly Leu Pro Leu Ala Gly Asn Pro Leu Trp Trp Arg Thr Met Phe 260 265 270
ggt att gca aca gtt ccc tct gtt ctc ttg gct ctt ggg atg ggc ttc 924 Gly lle Ala Thr Val Pro Ser Val Leu Leu Ala Leu Gly Met Gly Phe 275 280 285
tgt cca gaa agc cct agg tgg ctt ttt cag caa gga aaa att gtt gaa 972 Cys Pro Glu Ser Pro Arg Trp Leu Phe Gln Gln Gly Lys Ile Val Glu 290 295 300
gca gaa aag gcc gta gca gcc ctc tat gga aaa gaa agg gtt ccg gag 1020 Ala Glu Lys Ala Val Ala Ala Leu Tyr Gly Lys Glu Arg Val Pro Glu 305 310 315 320
gtg att aat gat ttg aga gca tct gtt caa ggt tct tct gaa cca gaa 1068 Val lle Asn Asp Leu Arg Ala Ser Val Gln Gly Ser Ser Glu Pro Glu 325 330 335
gct ggc tgg ttt gat ctg ttc agt agc cgc tac agg aaa gtg gta agt 1116 Ala Gly Trp Phe Asp Leu Phe Ser Ser Arg Tyr Arg Lys Val Val Ser 340 345 350
gtt ggt gct gca ctt ttc ttg ttc cag caa atg gca gga atc aat gct 1164 Val Gly Ala Ala Leu Phe Leu Phe Gln Gln Met Ala Gly Ile Asn Ala 355 360 365
gtt gta tat tac tcc aca tct gta ttc cga agt gct gga att gca tca 1212 Val Val Tyr Tyr Ser Thr Ser Val Phe Arg Ser Ala Gly lle Ala Ser 370 375 380
gat gtt gcc gct agt gcc ctt gtt gga gca tca aat gtt att ggc act 1260 Asp Val Ala Ala Ser Ala Leu Val Gly Ala Ser Asn Val Ile Gly Thr 385 390 395 400
gct gtc gcc tct tct tta atg gac aag caa gga aga aag agc cta ctg 1308 Ala Val Ala Ser Ser Leu Met Asp Lys Gln Gly Arg Lys Ser Leu Leu 405 410 415
atg aca agt ttc tca gga atg gct gcc tca atg ttg ttg ctg tca cta 1356  Met Thr Ser Phe Ser Gly Met Ala Ala Ser Met Leu Leu Ser Leu 420 425 430
tcg ttc aca tgg aag gct cta gca cct tac tcg ggc aca ctt gcc gtt 1404 Ser Phe Thr Trp Lys Ala Leu Ala Pro Tyr Ser Gly Thr Leu Ala Val 435 440 445
gtg gga act gtt tta tat gtc ctt tcc ttt tca ctt ggc gct ggt cct 1452 Val Gly Thr Val Leu Tyr Val Leu Ser Phe Ser Leu Gly Ala Gly Pro 450 455 460
gtt cct gct ctt cta ctt cca gag atc ttc gca tcc aga atc cga gca 1500 Val Pro Ala Leu Leu Pro Glu lle Phe Ala Ser Arg lle Arg Ala 465 470 475 480
aaa gca gtg gct ttg tca ctg gga atg cat tgg gcg tca aac ttc gta 1548

Lys Ala Val Ala Leu Ser Leu Gly Met His Trp Ala Ser Asn Phe Val
485 490 495
att ggc ctt tat ttc tta agt gtg gtg acc aag ttt gga atc agc aaa 1596
lle Gly Leu Tyr Phe Leu Ser Val Val Thr Lys Phe Gly lle Ser Lys
500 505 510
gtg tat ttg ggg ttc gcg tca gtg tgt gtg ctt gcc gtg ttg tac ata 1644
Val Tyr Leu Gly Phe Ala Ser Val Cys Val Leu Ala Val Leu Tyr Ile
515 520 525
gct ggt aac gtt gtt gaa aca aaa gga cga tca ctt gag gaa ata gag 1692 Ala Gly Asn Val Val Glu Thr Lys Gly Arg Ser Leu Glu Glu lle Glu
530 535 540
ctt get eta agt eea get gtt tag tttggaggat acagttttte tgtttttttg 1746
Leu Ala Leu Ser Pro Ala Val
545 550
atctatagag aattatgtta ataattcccg gatttaggag tttgatgcta gttttcatgc 1806
attcatgtcc agacagttgt actatcaatg tcagaaattc ctcgtgcc 1864

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